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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,698	03/19/2007	Donald Stuart Miller	1679.024 (TMG/ss/P71496us	9584
	7590		EXAMINER	
5 COLUMBIA CIRCLE			NGUYEN, DUNG V	
ALBANY, NY 12203			ART UNIT	PAPER NUMBER
			3723	
			MAIL DATE	DELIVERY MODE
			07/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/579,698	MILLER, DONALD STUART			
		Examiner	Art Unit			
		Dung Van Nguyen	3723			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING DISTRICT IN THE MAILING DEPLY WITH THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on <u>03 A</u>	nril 2008				
-	· · · · · · · · · · · · · · · · · · ·					
3)□	<i>,</i> —					
٥)ا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under z	-x parte Quayre, 1000 0.D. 11, 40	.o.G. 210.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1-4,8-11 and 14-23</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🛛	☐ Claim(s) <u>1-4 and 8-10</u> is/are allowed.					
6)🖂)⊠ Claim(s) <u>11 and 14-23</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/c	or election requirement.				
	on Papers	·				
	•					
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 19 May 2006 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
10)[
	Applicant may not request that any objection to the					
44)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 11, 14-18 and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Hashish et al (USPN 4,648,215). Hashish et al discloses an apparatus for generating a high velocity cutting jet 50 comprising means for forming a high velocity jet of liquid water, means 39 for forming a suspension of an abrasive material, means for entraining the suspension into the jet of liquid comprising abrasive material and liquid water, a restricted orifice 37 for forming a high velocity jet 50, a nozzle 46 having elongated bore extending between inlet and outlet, a chamber disposed between the orifice 37 and the nozzle 46, a frustoconical transition zone 44 connecting the chamber 38 to the inlet of the nozzle 46 (note Fig. 5, col., lines 22-58).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hashish et al in view of Mass et al (USPN 6,425,805). Hashish et al discloses the claimed

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invention as described above, Hashish et al does not disclose the nozzle comprises a plurality of nozzle sections. Massa et al discloses a nozzle comprises a plurality of nozzle sections (note Fig. 7, lines 19-54). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Hashish et al with the nozzle disclosed by Massa et al in order to extend the service life of the nozzle.

Allowable Subject Matter

5. Claims 1-4 and 8-10 are allowed.

Response to Arguments

6. Applicant's arguments with respect to claims 11 and 14-23 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung Van Nguyen whose telephone number is 571-272-

4490. The examiner can normally be reached on PHP Program.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph J. Hail can be reached on 571-272-4485. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dung Van Nguyen/ Primary Examiner, Art Unit 3723 July 10, 2008